

Date: Fri, 8 Oct 93 09:55:28 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #1193  
To: Info-Hams

Info-Hams Digest                      Fri, 8 Oct 93                      Volume 93 : Issue 1193

Today's Topics:

                    160 meters ?  
                    Alinco DJ-180? Comments?  
                    Are there any hams in Mississippi?  
                    HDN Releases  
                    How do I re-crystal this radio?  
                    HTX-202 battery  
                    Motorola ad in QST  
                    Motorola ad in QST? (3 msgs)  
                    Motorolas Ad on page 161 of QST  
                    READ: Gang Initiation  
                    Silly boy!  
                    Standards in 12V power cords. (2 msgs)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.  
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Date: 8 Oct 93 13:24:51 GMT  
From: ogicse!emory!kd4nc!ke4zv!gary@network.ucsd.edu  
Subject: 160 meters ?  
To: info-hams@ucsd.edu

In article <rbloomCEHqBz.7qC@netcom.com> rbloom@netcom.com (Ronald Bloom) writes:  
>  
>How popular is this band, these days? Is it extremely hard to  
>pick signals out of the intense atmospheric noise?

Top band isn't as popular as other HF bands because you really need

an effective groundplane to take best advantage of it. Propagation is similar to the top end of the Standard Broadcast band. You get good groundwave out to about 40 miles in the daytime, and often out to 100 miles at night. Skywave propagation is often good out to distances of 1500 miles, and under exceptional conditions out to 3000+ miles. As WHO says, "From border to border, coast to coast, and then some."

The summer static is fierce. The band is best toward dawn, and in winter, when the atmosphere is quieter. Transmit antennas are usually .25 to .6 wave vertical towers. Receive antennas are often switchable arrays of Beverages, and sometimes shielded loops for the property challenged.

Gary

--

Gary Coffman KE4ZV	"If 10% is good enough	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems	for Jesus, it's good	uunet!rsiatl!ke4zv!gary
534 Shannon Way	enough for Uncle Sam."	emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244	-Ray Stevens	

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Date: 7 Oct 93 17:30:04 GMT  
From: ddsww1!indep1!clifto@uunet.uu.net  
Subject: Alinco DJ-180? Comments?  
To: info-hams@ucsd.edu

In article <hlb.749831365@loral> hlb@li.loral.com (hlb) writes:  
>I'd be interested in comments on the DJ-180 as a starter rig. I'm  
>interested in being able to monitor public service band (138-174Mhz)  
>as well as 2m. It looked like a good price in the HRO catalog.

I \*love\* mine. The only things I dislike about it is that the front-panel keypad is for DTMF \_only\_ and not for frequency entry, and that the display doesn't include a signal strength indication.

The battery that came with it, as well as the identical extra I bought, took a LONG time (about 10-20 charge/discharge cycles) before it would hold a charge very long. First use, I got about an hour of receive-only time at fairly low volume. After cycling, they seem to give about 24 hours of receive-only, or about an hour of key-down time at high power (2W with supplied battery, which is 7.2V/700 mAh).

I've dropped this thing more often in the months I've had it (since Jan. 31) than I dropped my IC-02AT in (7? 8?) years, and the only damage is a chipped "0" key and a few scratches.

Comes with a "stubby duck"; full-size rubber duck optional. Rather than buy that, I'd go with one of the tall Larsens or a 1/2-wave.

Lots of available accessories (ask for a spec sheet). I did not like

the audio quality of their speaker mikes, so I bought a \$20 Radio Shack unit which is a bit flimsy but otherwise okay. Tunes from 130.000 to 173.995 MHz; in the absence of mods (which I don't know exist; they've been asked for in the newsgroups and no one's answered the poster), its tx range is 144.000 to 148.000, and outside that range keying the xmtr makes the display read "OFF".

Sensitive rx, tx gets out somewhat better than I'd expect for 2W, good audio on both rx and tx (though my unit came with the deviation set a bit high, another I heard didn't; I just stay away from the mike).

For the money, you can't beat it.

Now, here's hoping Alinco service is as good as the rig is...

--

```
+-----+
|  Cliff Sharp  |      clifto@indep1.chi.il.us   OR  clifto@indep1.uucp   |
|  WA9PDM      |      Use whichever one works                        |
+-----+
```

-----  
Date: Thu, 7 Oct 1993 20:39:07 GMT  
From: beta.lanl.gov!tjf@lanl.gov  
Subject: Are there any hams in Mississippi?  
To: info-hams@ucsd.edu

Hi....I'm trying to fill out WAS on 40m (10 also) and need only Mississippi. I got a fellow on 10m months ago, but he and I spoke different versions of English and I didn't get his call correct. Anyway, if there are netters from MS who would be willing to try a sked with New Mexico, please let me know!

Thanks!

Tom  
KJ5LT

-----  
Date: Fri, 08 Oct 1993 01:25:05  
From: paris.ics.uci.edu!csulb.edu!library.ucla.edu!europa.eng.gtefsd.com!  
howland.reston.ans.net!sol.ctr.columbia.edu!news.kei.com!news.oc.com!  
utacfd.uta.edu!rwsys!@news.service.uci.edu  
Subject: HDN Releases  
To: info-hams@ucsd.edu

The following files were processed Friday 10-08-93 at 1:124/7009:

HAMPACK [ HAM: Packet Communications programs ]

-----  
LL220UPG.ZIP ( 123299 bytes) Bug fix to Lan-Link 2.20

-----  
123299 bytes in 1 file(s)

Total of 123299 bytes in 1 file(s)

Files are available via Anonymous-FTP from ftp.ieee.org

Directories are:

- pub/fidonet/ham/hamnews (Bulletins)
- /hamant (Antennas)
- /hamsat (Sat. prg/Amsat Bulletins)
- /hampack (Packet)
- /hamelec (Formulas)
- /hamtrain (Training Material)
- /hamlog (Logging Programs)
- /hamcomm (APLink/JvFax/Rtty/etc)
- /hammods (Equip modification)
- /hamswl (SWBC Skeds/Frequencies)
- /hamscan (Scanner Frequencies)
- /hamutil (Operating aids/utils)
- /hamsrc (Source code to programs)
- /hamdemo (Demos of new ham software)
- /hamnos (TCP/IP and NOS related software)

lee - wa5eha

Ham Distribution Net

\* Origin: Ham Distribution Net Coordinator / Node 1 (1:124/7009)

-----  
Date: 8 Oct 93 12:29:43 GMT

From: ogicse!uwm.edu!linac!att!att-out!cbnewsh!wa2sff@network.ucsd.edu

Subject: How do I re-crystal this radio?

To: info-hams@ucsd.edu

In article <CEJCxI.MqK@boi.hp.com>, riyaadh@boi.hp.com (Riyadh Al-Kazily) writes:

> [ Newbie alert! ]

>

> Hello,

>

> Having just obtained my license, I'm trying to get on the air (while  
> maintaining my reputation for being cheap :-). A friend has loaned me an  
> old Kenwood TR-2200A 2m FM 'portable', and I would like to get some

> crystals to make it more useful in this area (Boise, ID) -- he hasn't used  
> the radio much since he moved from Missouri.  
>  
> I would like to know if such crystals are available, and from where.

Try Jan Crystals in Florida. They have an 800 number that I don't have handy;  
call 800 information (1-800-555-1212) for their number.

> Is there a special type of crystal that should be used, or will the seller  
> know from the radio model number? Also, when I install these crystals

Jan will recognize the radio type and send the right crystals for your radio  
you do need to tell them what frequency you want to receive.

Don't forget most repeaters are +600 or -600 from the frequency you receive on  
so you need different transmit and receive frequencies.

i.e., 146.940 MHz receive, 146.340 MHz transmit

Some repeaters have odd ball splits; check with your local hams  
before you order.

> do I need to adjust the little trimmer next to the socket I put the crystal  
> in? How do I do this (what tools are needed, aside from a screwdriver)?  
> I do not have the owners manual, or any other documentation.  
>

Yes you do. For the transmitter you will need a frequency counter to  
get it on frequency. For the receiver trimmer (if there is one)  
just adjust it until the received signal is the clearest.

> Hopefully I'll get something a little more modern at the end of this  
> month during our local annual swap meet :-). Meanwhile, I still have to  
> make a first contact...

IMPORTANT NOTE: Your radio is about 15 years old, maybe older. When FM  
repeaters first started in the late 60s, the repeater spacing was  
60 KHz. (146.94 was OK, 146.91 was not OK). Over the years,  
the spacing was reduced to 30 KHz and then 15 KHz (20 in some parts  
of the country). Your radio is old enough that it may have a wide  
band IF filter at 455 KHz. If that is true you will have to replace  
the filter with one appropriate for 15 KHz channels. The filter

is made by Murata (now Murata Eire) and can be replaced. The filter should have the number 455 and a letter after it. An E or F filter needs to be replaced. I don't have a catalog handy but I think a D filter is OK.

Good Luck

>  
> Thanks very much.

You are Welcome.

>  
> --  
> { Riyadhth Al-Kazily KB7YWE DoD #295 '83 BMW R65 '77 Volvo 242DL }  
> { riyadth@boi.hp.com | When am i going to have time to use all this }  
> { (208) 396-4987 | stuff I'm collecting? More important, how can }  
> { Boise, Idaho | I get more stuff? Amiga 500+ (+ stuff, that is) }

Joe Wilkes  
908-949-1601  
WA2SFF  
j.e.wilkes@att.com

-----  
Date: Thu, 7 Oct 1993 02:23:35 GMT  
From: gsm001!gsm001.mendelson.com!gsm1rn@uunet.uu.net  
Subject: HTX-202 battery  
To: info-hams@ucsd.edu

In article <CEFDpp.Cz0@cbnewsm.cb.att.com>  
Shel, WA2UBK, writes:

>Geoff Mendelson writes that there is current regulation on the  
>external power jack but not on the battery connector.  
>Geoff, I looked at my schemetic and it seems the regulator is built  
>into the battery pack--it's before the charge LED between the charging  
>jack and the NiCd. There is no difference in my HTX 202 between ext pwr  
>and battery pwr, they are tied together through identical diodes.  
>Do we have different schemetics? My schemetic indicates that the HT  
>would see the same from a 13.8V pack as it would if the ext jack was  
>plugged into a car lighter at 13.8v.

This is only true if you use a radio shack battery.

Most OEM packs do not have any regulation.

Geoff.

--

Geoffrey S. Mendelson N30WJ  
(215) 242-8712  
gsm@mendelson.com or uunet!gsm001!gsm

-----  
Date: 7 Oct 93 15:37:30 CDT  
From: swrinde!elroy.jpl.nasa.gov!usc!howland.reston.ans.net!darwin.sura.net!news-feed-2.peachnet.edu!umn.edu!msc.edu!raistlin!timbuk.cray.com!hemlock.cray.com!cherry10!dadams@network.ucsd.edu  
Subject: Motorola ad in QST  
To: info-hams@ucsd.edu

In article 1565@lmpsbbs.comm.mot.com, burke\_br@adcae1.comm.mot.com (Bruce Burke Sp App) writes:

|  
|Every manual contains a page indicating the software is copyrighted,  
|patented, or whatever. So, the buyer is warned. BTW - it is also imbedded in the  
|code.

|  
|Bruce, WB4YUC, e1 YUCCO. . .  
|

So does this prohibit a third party company from writting and distributing  
(for profit) their own alternative rom chips?

My understanding is that only in the most exceedingly rare circumstances  
will the government ever grant a patent for software. (Actually I am  
not sure that I know of any examples.)

Granted this would put a damper on piracy -- if such companies had to  
write the whole thing from scratch -- but then some of them probably  
could, perhaps with even more and better features than previously thought  
possible.

---

--David C. Adams Statistician Cray Research Inc. dadams@cray.com

Kilo Golf Zero India Oscar -(KG0IO)-

-----  
Date: Thu, 7 Oct 1993 18:35:27 GMT  
From: swrinde!sdd.hp.com!hpscit.sc.hp.com!news.dtc.hp.com!col.hp.com!srigenprp!  
donrm@network.ucsd.edu  
Subject: Motorola ad in QST?  
To: info-hams@ucsd.edu

Jim Reese (jreese@NeoSoft.com) wrote:

> On the other hand, Motorola is known for selling a company a set of two-way  
> radios, then taking that company's old radios and CRUSHING them so they don't  
> get sold on the surplus market.  
[...]  
> It's the stupidest thing I've ever seen...

Not really. I believe this is what dried up the source of nice HT-220  
boards that Spectronics used to sell for \$20 or so.

I used to see a fellow ham buying up Moto stuff at the local flea markets;  
control heads, cables, channel units, anything he could get his hands on.  
He was in the commercial 2-way radio business. I always wondered what he  
did with all that stuff. :^)

Don K6LTS  
donrm@sr.hp.com

-----  
Date: 7 Oct 93 15:42:53 CDT  
From: swrinde!elroy.jpl.nasa.gov!usc!howland.reston.ans.net!darwin.sura.net!news-  
feed-2.peachnet.edu!umn.edu!msc.edu!raistlin!timbuk.cray.com!hemlock.cray.com!  
cherry10!dadams@network.ucsd.edu  
Subject: Motorola ad in QST?  
To: info-hams@ucsd.edu

In article 1718@lmpsbbs.comm.mot.com, burke\_br@adcae1.comm.mot.com (Bruce Burke Sp  
App) writes:

|}  
|} Lotus might be able to sue if others sell unlicensed copies of their software,  
|} but they can't prevent third party companies from selling software with  
|} the same look and feel to be used in it's place.

|}  
|  
| Oh yes they can and oh yes they have. . . not necessarily Lotus, but there have  
| been sucessful lawsuits based on this exact issue. . .



|  
|Bruce, WB4YUC, e1 YUCCO. . .  
|

There have also been plenty of unsuccessful lawsuits. There was a recent decision against Apple computer for example.

---

--David C. Adams Statistician Cray Research Inc. dadams@cray.com

Kilo Golf Zero India Oscar -(KG0IO)-

-----  
Date: 7 Oct 93 15:44:36 GMT  
From: ddsww1!indep1!clifto@uunet.uu.net  
Subject: Motorola ad in QST?  
To: info-hams@ucsd.edu

In article <1993Oct6.115753.29654@lmpsbbs.comm.mot.com>

burke\_br@adcae1.comm.mot.com writes:

>In article 10380@cs.brown.edu, md@pstc3.pstc.brown.edu (System Operator) writes:

>If you build additional features into the radio, and attempt

>to circumvent them through software control, and someone

>discovers this by reverse-engineering and publishes the

>"fixes", I again fail to see how this is considered

>"software piracy".

>

>The firmware is all copyrighted, tampering with it is a crime!

A recent Supreme Court decision says that reverse-engineering software is just fine with them.

Most of the additional features of the radio are activated not by modifying the firmware, but by setting values in non-volatile RAM (EEPROM, flash ROM, BBRAM, etc.).

They have NO copyright on the contents of YOUR non-volatile RAM. The content of every radio can be different and they can't send copies of it to the Copyright office; also, it's not in itself a "work", it's just a series of numeric values the firmware reads.

So, if you reverse-engineer the firmware and change your NVRAM, they have nothing to say about it. (I'm not a lawyer -- I just play one on my computer.)

However, the intent of the ad seems to be to stop those who stole the Motorola internal programming software from retaining it or profiting by it. In THAT respect they're 100% right.

--

+-----+  
| Cliff Sharp | clifto@indep1.chi.il.us OR clifto@indep1.uucp |

| WA9PDM | Use whichever one works |  
+-----+

-----  
Date: Wed, 6 Oct 1993 23:37:38 GMT  
From: pa.dec.com!nntpd2.cxo.dec.com!nntpd.lkg.dec.com!ryn.mro4.dec.com!  
anarky.enet.dec.com!brewer@decwrl.dec.com  
Subject: Motorolas Ad on page 161 of QST  
To: info-hams@ucsd.edu

Did anyone else find Motorolas advertisement on page 161 of  
QST a bit offensive. Maybe I am hypercritical of them, as  
I view the ECPA as a direct result of motorolas money  
and lobbying power, but the not-so-indirect warning of:

TAMPERING WITH MOTOROLAS COMMUNICATIONS TECHNOLOGY IS  
NOTHING SHORT OF A CRIME!

seems awfully damn threatening to me. Especially when  
the term "tampering" is not defined. . . other than  
by terms like "High-Tech piracy" .. which are meaningless.

"Tampering" with "technology" is certainly NOT a crime!  
/john

-----  
| John Brewer | Internet: brewer@anarky.enet.dec.com |  
| wb5oau | Packet | wb5oau@wb2ars |  
-----

The above opinions are mine, and not those of my employer

-----  
Date: 7 Oct 93 19:20:52 GMT  
From: sdd.hp.com!hpscit.sc.hp.com!cupnews0.cup.hp.com!jholly@hplabs.hpl.hp.com  
Subject: READ: Gang Initiation  
To: info-hams@ucsd.edu

shearer@esvx12.es.dupont.com wrote:

: BULLETIN  
:  
:  
: !!! THERE IS A NEW GANG INITIATION!!!  
:  
: [stuff about flashing lights deleted]  
:  
: de Steve WB3LGC...

BITZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZIT.....

Sorry the prize was behind door three...you lose, take your urban legend home while the rest of us laugh. This has been old hat old here in sunnyland for MONTHS!!!! Not one creditable instance has been cited in the newspaper or on the evening news. You think for one minute these hype mongers would pass this one up? Guess your still parinoid from visiting Florida.

have a nice day,

de Jim, WA6SDM

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Date: 7 Oct 93 19:25:17 GMT  
From: sdd.hp.com!hpscit.sc.hp.com!cupnews0.cup.hp.com!jholly@hplabs.hpl.hp.com  
Subject: Silly boy!  
To: info-hams@ucsd.edu

Derek Wills (oo7@emx.cc.utexas.edu) wrote:  
: shearer@esvx12.es.dupont.com falls victim:

: However, I have heard that if you send Morse code on your car horn,  
: the gang members of the Society for the Prompt Abolition of Morris  
: (S.P.A.M.) will come and break your fingers. True - this has already  
: happened to a friend of a co-worker's uncle's dentist in N. Dakota.

But what really hurts is when they knock you kneecaps off with an old Vibroplex key. None of those new fangled paddle thingys!

: Derek "beep, ouch!" Wills (AA5BT, G3NMX)  
: Department of Astronomy, University of Texas,  
: Austin TX 78712. (512-471-1392)  
: oo7@astro.as.utexas.edu

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Date: 8 Oct 93 13:15:04 GMT  
From: ogicse!emory!kd4nc!ke4zv!gary@network.ucsd.edu  
Subject: Standards in 12V power cords.  
To: info-hams@ucsd.edu

In article <152893@netnews.upenn.edu> yee@mipg.upenn.edu (Conway Yee) writes:  
>It has been awhile since this thread has passed around and the last time,  
>I don't think anyone answered this question to my satisfaction.  
>

>The ARRL recommends the Molex 1545-series connector (last discussed  
>QST 8/93 p. 50)

>

>My question is why? While fine for HT's, the current ratings on the Molex  
>aren't quite up to the needs of a 100W class HF transceiver. The article  
>in QST didn't explain the design decisions which caused the ARRL to decide  
>upon upon the Molex connectors. What were the disadvantages of other common  
>connectors (e.g. Jones) and what were the advantages of the Molex?

They're available at Radio Shaft and they don't fall apart like  
Cinch Jones connectors. Other than that, they have no saving  
graces.

I prefer the hermaphrodite Andersen Power Pole connectors for all  
my DC work. They're available in ratings up to 200 amps, or as  
little as 15 amps. They're available in colors. They lock. And  
they work. You don't care which end of the cable you grab since  
any connector will plug together with any other of the same amp  
rating. Available from Newark and other large distributors.

Gary

--

Gary Coffman KE4ZV	"If 10% is good enough	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems	for Jesus, it's good	uunet!rsiatl!ke4zv!gary
534 Shannon Way	enough for Uncle Sam."	emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244	-Ray Stevens	

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Date: 8 Oct 93 15:42:15 GMT

From: ogicse!hp-cv!sdd.hp.com!col.hp.com!gregt@network.ucsd.edu

Subject: Standards in 12V power cords.

To: info-hams@ucsd.edu

The disadvantage of the Jones plug is primarily the cost. They are  
also harder to use as they require disassembly, soldering, and reassembly.  
My HF rig uses one, though.

I've been using the Molex connectors for about 15 years or so and  
find them to be really convenient, inexpensive and reliable. I use the  
Molex on all my 2M and portable gear, including a Yeasu FT-7 and battery  
packs.

TIP: If you ever need to re-use the Molex plastic shell, you can go to  
your local hobby shop and purchase a small length of brass tubing to use  
as a pin extractor.

Bring the male and female pins with you to size up the brass tube -  
I don't remember what inside diameter is needed. The tubing should be

an almost snug fit over the pin to be able to compress the two clips on the side of the connector pin.

Greg WA200D

=====  
Greg Tarcza           WA200D  
Hewlett-Packard Company  
P.O. Box 2197  
Colorado Springs, CO 80901  
719-590-2471

Pikes  
Peak  
Soaring  
Society

      /  
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      /  
      /

gregt@col.hp.com  
=====

-----  
Date: 6 Oct 93 20:16:01 GMT  
From: ddsww1!indep1!clifto@uunet.uu.net  
To: info-hams@ucsd.edu

References <10277.2501@guinea.com>, <28a7un\$jf8@news.ysu.edu>,  
<931002.185416.104.rusnews.w165w@hades.cdp.org>dep1  
Subject : Re: New Products Announcement: BFH-1 & BFH-2

In article <931002.185416.104.rusnews.w165w@hades.cdp.org> system@hades.cdp.org  
(Tony Pelliccio) writes:

>However, I noticed you didn't see the joke for what it was. Ask anyone  
>who's ever been in the military, any of the branches, what a BFH is :)

I always get a kick out of explaining it. I look the questioner in the  
eye and say "BFH means 'big hammer'." They stare blankly for a second, then  
smile broadly... usually. If they ask about the "F", I tell them to use  
their imagination... so far that's worked. (I'm waiting for the REAL fun  
time to come when someone pushes me past THAT little tidbit! :-)

--

+-----+  
| Cliff Sharp |           clifto@indep1.chi.il.us   OR   clifto@indep1.uucp   |  
|   WA9PDM   |                           Use whichever one works           |  
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End of Info-Hams Digest V93 #1193

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